LAND APPLICATION SITE

ALAN D. BAGLEY

LUADB 1-7

LUNENBURG COUNTY

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 11-4-13 between Alan D. Bagley referred to here as "Landowner", and Recyc Systems, Inc, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:
The Landowner is the owner of record of the real property located in Lunenburg, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1.: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
37-A-38			
37-A-35			
37-A-35A			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☑ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
2. Notify the Permittee of the sale within two weeks following property transfer.

The Landowner has no other agreements for land application on the fields identified herein. The Landowner will notify the Permittee immediately if conditions change such that the fields are no longer available to the Permittee for application or any part of this agreement becomes invalid or the information herein contained becomes incorrect.

The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

Class B biosolids	Water treatment residuals	Food processing waste	Other industrial sludges
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

434 676-2577

Alan D. Bagley — Alan D. Bagley — PO Box 766 Kenbridge VA 23944

Landowner – Printed Name, Title | Signature | Mailing Address & Phone Number

Permittee:
Recyc Systems, Inc, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

PO Box 562 Remington, Virginia 22734

Permittee – Authorized Representative Printed Name | Signature | Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: Lunenburg

Landowner: Alan D. Bagley

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

1. Notification Signs: I will not remove any signs posted by the Permittee for the purpose of identifying my field as a biosolids land application site, unless requested by the Permittee, until at least 30 days after land application at that site is completed.

2. Public Access
   a. Public access to land with a high potential for public exposure shall be restricted for at least one year following any application of biosolids.
   b. Public access to land with a low potential for public exposure shall be restricted for at least 30 days following any application of biosolids. No biosolids amended soil shall be excavated or removed from the site during this same period of time unless adequate provisions are made to prevent public exposure to soil, dusts or aerosols;
   c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

3. Crop Restrictions:
   a. Food crops with harvested parts that touch the biosolids/soil mixture and are totally above the land surface shall not be harvested for 14 months after the application of biosolids.
   b. Food crops with harvested parts below the surface of the land shall not be harvested for 20 months after the application of biosolids when the biosolids remain on the land surface for a time period of four (4) or more months prior to incorporation into the soil,
   c. Food crops with harvested parts below the surface of the land shall not be harvested for 38 months when the biosolids remain on the land surface for a time period of less than four (4) months prior to incorporation.
   d. Other food crops and fiber crops shall not be harvested for 30 days after the application of biosolids;
   e. Feed crops shall not be harvested for 30 days after the application of biosolids (60 days if fed to lactating dairy animals).

4. Livestock Access Restrictions:
   Following biosolids application to pasture or hayland sites:
   a. Meat producing livestock shall not be grazed for 30 days,
   b. Lactating dairy animals shall not be grazed for a minimum of 60 days.
   c. Other animals shall be restricted from grazing for 30 days;

5. Supplemental commercial fertilizer or manure applications will be coordinated with the biosolids and industrial residuals applications such that the total crop needs for nutrients are not exceeded as identified in the nutrient management plan developed by a person certified in accordance with §10.1-104.2 of the Code of Virginia;

6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Alan D. Bagley 11/4/13
Landowner's Signature Date

434-676-2577(H)
434 480-6822(C)
Alan D. Bagley P.O. Box 277 Kenbridge VA 23944
Farm Operator Signature Mailing Address & Phone Number

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION
FORM D: MUNICIPAL EFFLUENT AND BIOSOLIDS

PART D-VI: LAND APPLICATION AGREEMENT - BIOSOLIDS AND INDUSTRIAL RESIDUALS

A. This land application agreement is made on 11-16-13 between Melinda Bagley referred to here as "Landowner", and Recyc Systems, Inc, referred to here as the "Permittee". This agreement remains in effect until it is terminated in writing by either party or, with respect to those parcels that are retained by the Landowner in the event of a sale of one or more parcels, until ownership of all parcels changes. If ownership of individual parcels identified in this agreement changes, those parcels for which ownership has changed will no longer be authorized to receive biosolids or industrial residuals under this agreement.

Landowner:
The Landowner is the owner of record of the real property located in Lunenburg, Virginia, which includes the agricultural, silvicultural or reclamation sites identified below in Table 1 and identified on the tax map(s) attached as Exhibit A.

Table 1: Parcels authorized to receive biosolids, water treatment residuals or other industrial sludges

Tax Parcel ID	Tax Parcel ID	Tax Parcel ID	Tax Parcel ID
37-A-38			
37-A-35			

☐ Additional parcels containing Land Application Sites are identified on Supplement A (check if applicable)

Check one: ☐ The Landowner is the sole owner of the properties identified herein.
☑ The Landowner is one of multiple owners of the properties identified herein.

In the event that the Landowner sells or transfers all or part of the property to which biosolids have been applied within 38 months of the latest date of biosolids application, the Landowner shall:

1. Notify the purchaser or transferee of the applicable public access and crop management restrictions no later than the date of the property transfer; and
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The Landowner hereby grants permission to the Permittee to land apply residuals as specified below, on the agricultural sites identified above and in Exhibit A. The Landowner also grants permission for DEQ staff to conduct inspections on the land identified above, before, during or after land application of permitted residuals for the purpose of determining compliance with regulatory requirements applicable to such application.

Class B biosolids	Water treatment residuals	Food processing waste	Other industrial sludges
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

Melinda Bagley — Melinda Bagley — PO Box 277 Kenbridge VA 23944 — 434-676-2577
Landowner – Printed Name, Title — Signature — Mailing Address & Phone Number

Permittee:
Recyc Systems, Inc, the Permittee, agrees to apply biosolids and/or industrial residuals on the Landowner's land in the manner authorized by the VPA Permit Regulation and in amounts not to exceed the rates identified in the nutrient management plan prepared for each land application field by a person certified in accordance with §10.1-104.2 of the Code of Virginia.

The Permittee agrees to notify the Landowner or the Landowner's designee of the proposed schedule for land application and specifically prior to any particular application to the Landowner's land. Notice shall include the source of residuals to be applied.

☐ I reviewed the document(s) assigning signatory authority to the person signing for landowner above. I will make a copy of this document(s) available to DEQ for review upon request. (Do not check this box if the landowner signs this agreement)

PO Box 562 Remington, Virginia 22734
Permittee – Authorized Representative Printed Name — Signature — Mailing Address

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Permittee: Recyc Systems, Inc County or City: Lunenburg

Landowner: Melinda Bagley

Landowner Site Management Requirements:

I, the Landowner, I have received a DEQ Biosolids Fact Sheet that includes information regarding regulations governing the land application of biosolids, the components of biosolids and proper handling and land application of biosolids.

I have also been expressly advised by the Permittee that the site management requirements and site access restrictions identified below must be complied with after biosolids have been applied on my property in order to protect public health, and that I am responsible for the implementation of these practices.

I agree to implement the following site management practices at each site under my ownership following the land application of biosolids at the site:

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   c. Turf grown on land where biosolids are applied shall not be harvested for one year after application of biosolids when the harvested turf is placed on either land with a high potential for public exposure or a lawn, unless otherwise specified by DEQ.

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6. Tobacco, because it has been shown to accumulate cadmium, should not be grown on the Landowner's land for three years following the application of biosolids or industrial residuals which bear cadmium equal to or exceeding 0.45 pounds/acre (0.5 kilograms/hectare).

Melinda Bagley 11/16/13

Landowner's Signature Date

Farm Operator Signature Mailing Address & Phone Number

FARM DATA SHEET

SITE NAME:	Alan D. Bagley	COUNTY:	Lunenburg
OWNER:	Marvin G. and Alan D. or Melinda Bagley	OPERATOR:	Alan D. Bagley
OWNER'S ADDRESS	P.O. Box 277 Kenbridge, VA 23944	OPERATOR'S ADDRESS	P.O. Box 277 Kenbridge, VA 23944
OWNER'S TELEPHONE	434-676-2577	OPERATOR'S TELEPHONE	434-676-2577
GENERAL FARM TYPE:	Hay/ Pasture	CELL PHONE:	434-480-6822
# CATTLE	25	EMAIL:	-
LAGOON or SLURRY	None	LATITUDE:	36°58'27"
TOPO QUAD:	Kenbridge East	LONGITUDE:	78°04'09"
COMMENTS: Marvin G. Bagley is now deceased. Alan D. Bagley, his son, and Melinda Bagley, his daughter-in-law inherited his share.			
			BB

RECYC SYSTEMS, INC
FIELD DATA SHEET

Field Identification	Gross Acres	Environmentally Sensitive Soils				Hydro Map	Tax Map #	FSA Tract #
		Water Table	Bed Rock/Shallow	Surf/Leach	Freq Flood			
LUADB 1	8.6	-	-	-	-	CU 07	TM 337-AA-38	T 33 F 3
LUADB 2	8.6	-	-	-	-	CU 07	TM 337-AA-38	T 33 F 11
LUADB 3	11.9	-	-	-	-	CU 07	TM 337-AA-38	T 33 F 4
LUADB 4	7.5	-	-	-	-	CU 07	TM 337-AA-38	T 33 F 4, 6
LUADB 5	11.3	-	-	-	-	CU 07	TM 337-AA-38	T 33 F 7
LUADB 6	15.9	-	-	-	-	CU 07	TM 337-AA-38	T 33 F 9
LUADB 7	2.5	-	-	-	-	CU 07	TM 337-AA-38	T 33 F 5
TOTAL ACRES IN SITE	66.3							

VIRGINIA POLLUTION ABATEMENT PERMIT APPLICATION: PART D-VI LAND APPLICATION AGREEMENT

Landowner Coordination Form

This form is used by the Permittee to identify properties (tax parcels) that are authorized to receive biosolids and/or industrial residuals, and each of the legal landowners of those tax parcels. A Land Application Agreement-Biosolids and Industrial Residuals from original signature must be attached for each legal landowner identified below prior to land application at the identified parcels.

Permittee: Recyc Systems Inc. Site Name: Alan D. Bagley

County or City: Lunenburg

Please Print Signature not required on this page

Tax Parcel ID(s)	Landowners (s)
37-A-38	Marvin G. and Alan D. or Melinda Bagley
37-A-35	Alan D. or Melinda B. Bagley
37-A-35A	Alan D. Bagley

Page: 1 of 1

Report Number: 13-322-0860
Account Number: 70594

www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
ALAN D BAGLEY
LUNENBURG CO

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Date Received: 11/18/2013 **Date Of Analysis:** 11/19/2013 **Date Of Report:** 11/19/2013

Analytical Method(s):
Mehlich 3

Sample ID / Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Mehlich 3 Rate	Reserve ppm	Reserve Rate	K ppm	K Rate	Mg ppm	Mg Rate	Ca ppm	Ca Rate	Na ppm	Na Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
1 LUADB	08390	1.9	L	82	86	H			60	L	105	H	520	M			6.0	6.86	0.7	4.3
2 LUADB	08391	1.1	L	68	147	VH			74	M	88	H	388	M			6.4	6.90	0.3	3.1
3 LUADB	08392	3.0	M	99	65	H			93	M	220	H	967	M			6.3	6.85	0.8	7.7
4 LUADB	08393	2.3	L	87	105	VH			87	L	182	H	875	M			6.6	6.89	0.4	6.5
5 LUADB	08394	1.5	L	75	159	VH			46	L	88	H	435	M			6.0	6.87	0.6	3.6

Sample ID / Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	NO_3N Rate	S ppm	S Rate	Zn ppm	Zn Rate	Mn ppm	Mn Rate	Fe ppm	Fe Rate	Cu ppm	Cu Rate	B ppm	B Rate	SS ms/cm	SS Rate	Cl ppm	Cl Rate	Al ppm
1 LUADB	3.6	20.3	60.5		15.4																			
2 LUADB	6.1	23.7	62.6		9.1																			
3 LUADB	3.1	23.8	62.8		10.6																			
4 LUADB	3.4	23.3	67.3		5.9																			
5 LUADB	3.3	20.4	60.4		15.3																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 13-322-0860
Account Number: 70594

www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
ALAN D BAGLEY
LUNENBURG CO

Submitted By: BB
Farm ID:

Date Received: 11/18/2013
Date Received 11/18/2013

Date Of Report: 11/19/2013
Date Of Report 11/19/2013 SOI

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
1 LUADB	Adjust pH to 6.8	0	1.3				0						
2 LUADB	Adjust pH to 6.8	0	1.0				0						
3 LUADB	Adjust pH to 6.8	0	1.0				0						
4 LUADB	Adjust pH to 6.8	0	1.0				0						
5 LUADB	Adjust pH to 6.8	0	1.3				0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

Pauric McGroary

Pauric McGroary

ge:

Report Number: 13-322-0860
Account Number: 70594

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
8455 WHITESHOP RD
CULPEPER VA 22701

Grower:
ALAN D BAGLEY
LUNENBURG CO

Submitted By: BB
Farm ID:

SOIL ANALYSIS REPORT

Analytical Method(s):
Mehlich 3

Date Received: 11/18/2013 **Date Of Analysis:** 11/19/2013 **Date Of Report:** 11/19/2013

Sample ID / Field ID	Lab Number	Organic Matter			Phosphorus				Potassium		Magnesium		Calcium		Sodium		pH		Acidity	C.E.C
		%	Rate	ENR lbs/A	Mehlich 3 ppm	Rate	Reserve ppm	Rate	K ppm	Rate	Mg ppm	Rate	Ca ppm	Rate	Na ppm	Rate	Soil pH	Buffer Index	H meq/100g	meq/100g
6 LUADB	08395	2.6	M	94	44	M			142	H	158	H	628	M			6.2	6.86	0.7	5.5
7 LUADB	08396	2.8	M	97	81	H			56	L	162	H	740	M			5.7	6.79	1.4	6.6

Sample ID / Field ID	Percent Base Saturation					Nitrate		Sulfur		Zinc		Manganese		Iron		Copper		Boron		Soluble Salts		Chloride		Aluminum
	K %	Mg %	Ca %	Na %	H %	NO_3N ppm	Rate	S ppm	Rate	Zn ppm	Rate	Mn ppm	Rate	Fe ppm	Rate	Cu ppm	Rate	B ppm	Rate	SS ms/cm	Rate	Cl ppm	Rate	Al ppm
6 LUADB	6.6	23.9	57.1		12.1																			
7 LUADB	2.2	20.5	56.1		21.0																			

Values on this report represent the plant available nutrients in the soil. Rating after each value: VL (Very Low), L (Low), M (Medium), H (High), VH (Very High). ENR - Estimated Nitrogen Release. C.E.C. - Cation Exchange Capacity.

Explanation of symbols: % (percent), ppm (parts per million), lbs/A (pounds per acre), ms/cm (milli-mhos per centimeter), meq/100g (milli-equivalent per 100 grams). Conversions: ppm x 2 = lbs/A, Soluble Salts ms/cm x 640 = ppm.

This report applies to sample(s) tested. Samples are retained a maximum of thirty days after testing.

Analysis prepared by: A&L Eastern Laboratories, Inc.

by: Pauric McGroary

Pauric McGroary

Report Number: 13-322-0860
Account Number: 70594

www.aleastern.com

A&L Eastern Laboratories

7621 Whitepine Road Richmond, Virginia 23237 (804) 743-9401 Fax (804) 271-6446

Send To: RECYC SYSTEMS INC
SUSAN TRUMBO
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CULPEPER VA 22701

Grower:
ALAN D BAGLEY
LUNENBURG CO

Submitted By: BB
Farm ID:

Date Received: 11/18/2013
Date Of Report: 11/19/2013

SOIL FERTILITY RECOMMENDATIONS

Sample ID Field ID	Intended Crop	Yield Goal	Lime Tons/A	Nitrogen N lb/A	Phosphate P_2O_5 lb/A	Potash K_2O lb/A	Magnesium Mg lb/A	Sulfur S lb/A	Zinc Zn lb/A	Manganese Mn lb/A	Iron Fe lb/A	Copper Cu lb/A	Boron B lb/A
6 LUADB	Adjust pH to 6.8	0	1.3				0						
7 LUADB	Adjust pH to 6.8	0	1.8				0						

Comments:

"The recommendations are based on research data and experience, but NO GUARANTEE or WARRANTY expressed or implied, concerning crop performance is made."

Pauric McGroary

Pauric McGroary

THE PLANNER IS NOT STATE CERTIFIED

Nutrient Management Plan Balance Sheet
(Fall, 2013-Winter, 2015)
Alan D. Bagley
Planner: Recyc Systems, Inc

Tract: 3 Location: Lunenburg
(N = N based, 1P = P based, 1.5P = P based at 1.5 removal, 0P = No P allowed)

Field CFSA No. /Name	Size (ac) Total/ Used	Yr.	Crop	Needs N-P-K (lbs/ac)	Leg /Man Resid	Manure/Biosld Rate & Type (season)	IT (d)	Man/Bios N-P-K (lbs/ac)	Net = Needs - appld N-P-K (lbs/ac)	Sum P rem cred	Commercial N-P-K (lbs/ac)	Notes	
3/LUADB 1(N)	9/9	2013	Grass Pasture	50-0-50	0/0				50-0-50	N/A			
1/LUADB 2(1P)	9/9	2013	Grass Pasture	50-0-40	0/0				50-0-40	20			
4/LUADB 3(N)	12/12	2013	Grass Pasture	50-0-40	0/0				50-0-40	N/A			
4, 6/LUADB 4(N)	8/8	2013	Grass Pasture	50-0-40	0/0				50-0-40	N/A			
7/LUADB 5(1P)	11/11	2013	Grass Pasture	50-0-60	0/0				50-0-60	20			
9/LUADB 6(N)	16/16	2013	Grass Pasture	50-30-0	0/0				50-30-0	N/A			
5/LUADB 7(N)	3/3	2013	Fes-grass/clover hay	0-40-110	0/0				0-40-110	N/A			

Commercial Application Methods:
br - Broadcast ba - Banded sd - Sidedress
Notes:

Soil Test Summary

Tract	Field	Acre	Date	P2O5	K2O	Lab	Soil pH	Lime Date	rec. lime tons/Ac
3	LUADB 1	9	2013-Fa	H (86 P ppm)	M- (60 K ppm)	A&L MIII	6.		
3	LUADB 2	9	2013-Fa	VH (147 P ppm)	M (74 K ppm)	A&L MIII	6.4		
3	LUADB 3	12	2013-Fa	H- (65 P ppm)	M (93 K ppm)	A&L MIII	6.3		
3	LUADB 4	8	2013-Fa	H+ (105 P ppm)	M (87 K ppm)	A&L MIII	6.6		
3	LUADB 5	11	2013-Fa	VH (159 P ppm)	L+ (46 K ppm)	A&L MIII	6.		
3	LUADB 6	16	2013-Fa	M+ (44 P ppm)	H- (142 K ppm)	A&L MIII	6.2		
3	LUADB 7	3	2013-Fa	H (81 P ppm)	M- (56 K ppm)	A&L MIII	5.7		

Field Productivities for Major Crops

Tract Name	Tract/ Field	Field Name	Acres	Predominant Soil Series	Corn	Small Grain	Alfalfa	Grass Hay	Environmental Warnings
3	3/3	LUADB 1	9	Appling	IVb	IV	III	IV	
	3/1	LUADB 2	9	Appling	IVb	III	III	IV	
	3/4	LUADB 3	12	Appling	IVb	IV	III	IV	
	3/4, 6	LUADB 4	8	Appling	IVb	III	III	IV	
	3/7	LUADB 5	11	Appling	IVb	III	III	IV	
	3/9	LUADB 6	16	Appling	IVb	IV	III	IV	
	3/5	LUADB 7	3	Caroline	IVa	II	Not Suited	IV	

Yield Range

Field Productivity Group	Corn Grain Bu/Acre	Barley/Intensive Wheat Bu/Acre	Std. Wheat Bu/Acre	Alfalfa Tons/Acre	Grass/Hay Tons/Acre
I	>170	>80	>64	>6	>4.0
II	150-170	70-80	56-64	4-6	3.5-4.0
III	130-150	60-70	48-56	<4	3.0-3.5
IV	100-130	50-60	40-48	NA	<3.0
V	≤100	<50	<40	NA	NA

Farm Summary Report

Plan: **New Plan** **Fall, 2013 - Winter, 2015**

Farm Name: **Alan D. Bagley**
Location: Lunenburg
Specialist: Recyc Systems, Inc
N-based Acres: 46.4
P-based Acres: 19.9

Tract Name: **3**
FSA Number: 3
Location: Lunenburg

Field Name: **LUADB 1**
Total Acres: 8.60 Usable Acres: 8.60
FSA Number: 3
Tract: 3
Location: Lunenburg
Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K		Lab
Fa-2013	6.0	H(86 P ppm)	M-(60 K ppm)	A&L MIII	

Soils:

PERCENT	SYMBOL	SOIL SERIES

42	1B2	Appling
50	1C2	Appling
8	4B	Caroline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Fa	3.2 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **LUADB 2**

Total Acres:	8.60	Usable Acres:	8.60
FSA Number:	1		
Tract:	3		
Location:		Lunenburg	
Slope Class:	B	Hydrologic Group:	B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
P-based(1.0)
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Fa-2013	6.4	VH(147 P ppm)	M(74 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
68	1B2	Appling
7	1C2	Appling
25	4B	Caroline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Fa	3.4 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **LUADB 3**
Total Acres: 11.90 Usable Acres: 11.90
FSA Number: 4
Tract: 3
Location: Lunenburg
Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Fa-2013	6.3	H-(65 P ppm)	M(93 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
26	1B2	Appling
71	1C2	Appling
3	4B	Caroline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Fa	3.1 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **LUADB 4**
Total Acres: 7.50 Usable Acres: 7.50
FSA Number: 4, 6
Tract: 3
Location: Lunenburg
Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Fa-2013	6.6	H+(105 P ppm)	M(87 K ppm)	A&L Mill

Soils:

PERCENT	SYMBOL	SOIL SERIES
67	1C2	Appling
33	4B	Caroline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Fa	3.5 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **LUADB 5**
Total Acres: 11.30 Usable Acres: 11.30
FSA Number: 7
Tract: 3
Location: Lunenburg
Slope Class: C Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
P-based(1.0)
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Fa-2013	6.0	VH(159 P ppm)	L+(46 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
16	1B2	Appling
56	1C2	Appling
28	4B	Caroline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Fa	3.4 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **LUADB 6**
Total Acres: 15.90 Usable Acres: 15.90
FSA Number: 9
Tract: 3
Location: Lunenburg
Slope Class: B Hydrologic Group: B

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Fa-2013	6.2	M+(44 P ppm)	H-(142 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
66	1B2	Appling
34	1C2	Appling

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Fa	3.1 * acres/AU	Orchard grass/fescue pastures<=25% legume, maint. - No Till

Field Name: **LUADB 7**

Total Acres:	2.50	Usable Acres:	2.50
FSA Number:	5		
Tract:	3		
Location:		Lunenburg	
Slope Class:	B	Hydrologic Group:	C

Riparian buffer width: 0 ft
Distance to stream: 0 ft

Conservation Practices:
Pasture (>75% cover)

P-Index Summary
N-based
Phosphorus Limit method: Phosphorus Environmental Threshold (PET) method

Soil Test Results:

DATE	PH	P	K	Lab
Fa-2013	5.7	H(81 P ppm)	M-(56 K ppm)	A&L MIII

Soils:

PERCENT	SYMBOL	SOIL SERIES
26	1C2	Appling
74	4B	Caroline

Field Warnings:

Crop Rotation:

PLANTED	YIELD	CROP NAME
2013-Fa	2.5 * tons	Fescue grass-Ladino clover (hay), maint. - No Till

MAPS

Recyc Systems™ Inc.

(Biosolids Land Application)

PUBLIC FARMERS GENERATORS

Scale: 1"= 2 miles

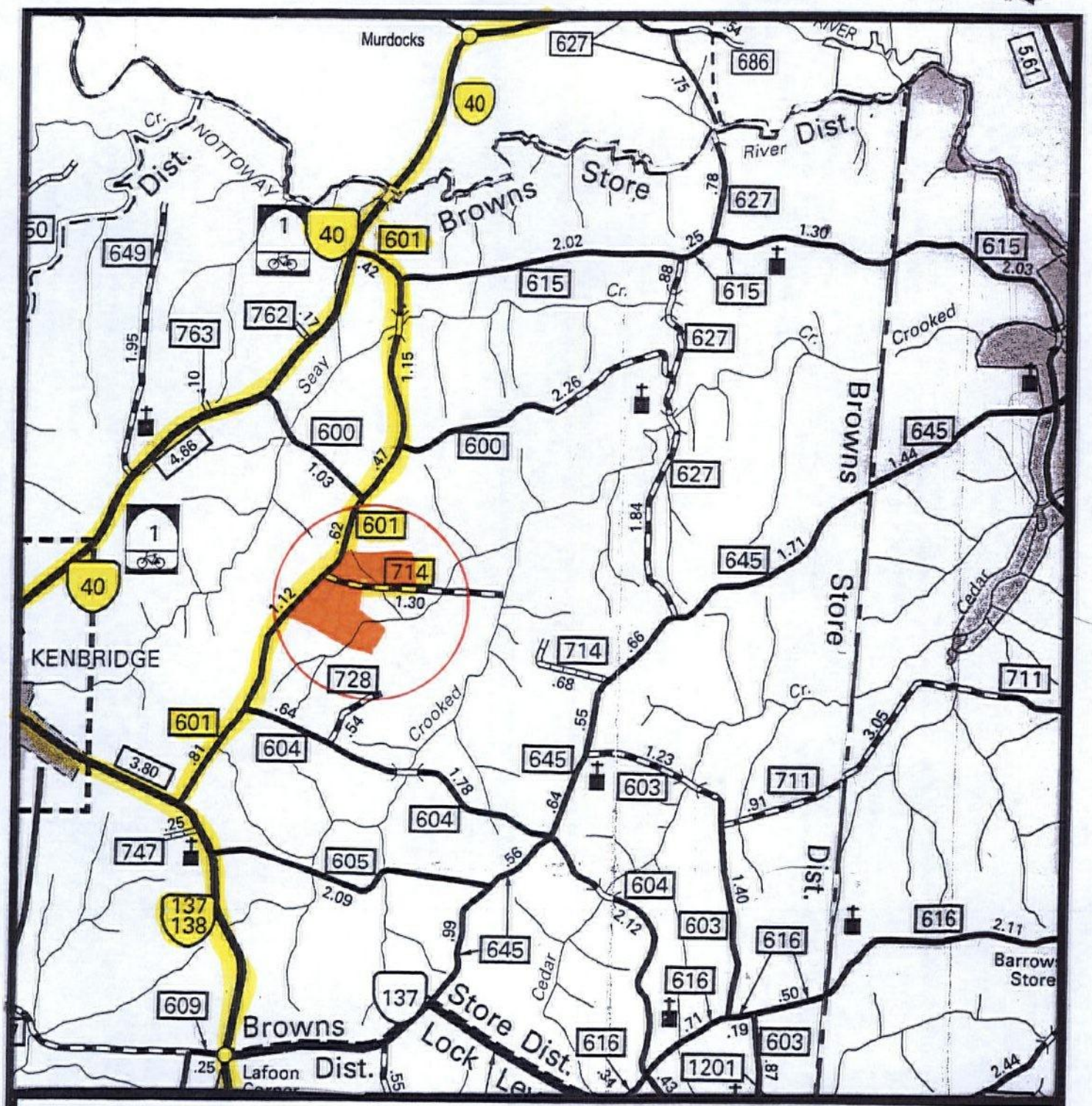
LUADB 1-7

VICINITY MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1"= 1 mile

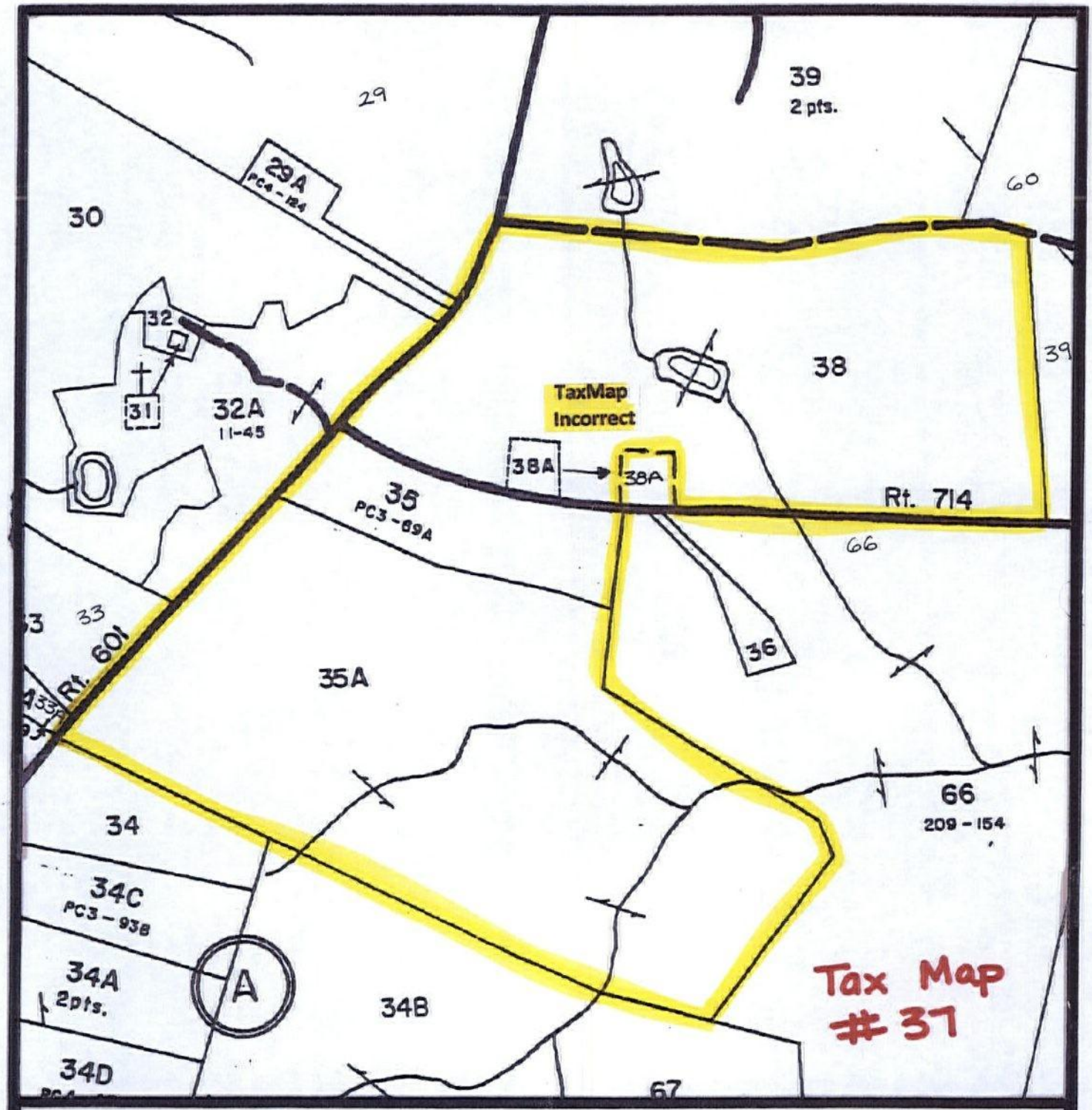
LUADB 1-7

VICINITY MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Scale: 1"= 660 ft.

LUADB 1-7

TAX MAP

N

ADJOINING LANDOWNERS

Alan D. Bagley

LUNENBURG COUNTY

Tax Map	Parcel #	Owner Name(s)
37-A	29	William J. or Kathy G. Coffee
	29A	Hannah C. Guarino or Kathy G. Coffee
	30	Tim and Joel Cathey Tucker
	32A	Everett Lee or Nancy A. Pennington
	33	Francis G. Fowler
	33A	Timothy M. or Rebecca L. Fowler
	34	Francis G. Fowler
	34B	Robert L. or Aimee B. Parsons
	36	Cornelius and Florence Johnson
	39	Richard T. or Carolyn H. Hite
	60	Richard T. or Carolyn H. Hite
	66	Commonwealth Forest Investments Inc.
	67	Commonwealth Forest Investments Inc.

Recyc Systems™ Inc.

(Biosolids Land Application)

Scale: 1"= 660 ft.

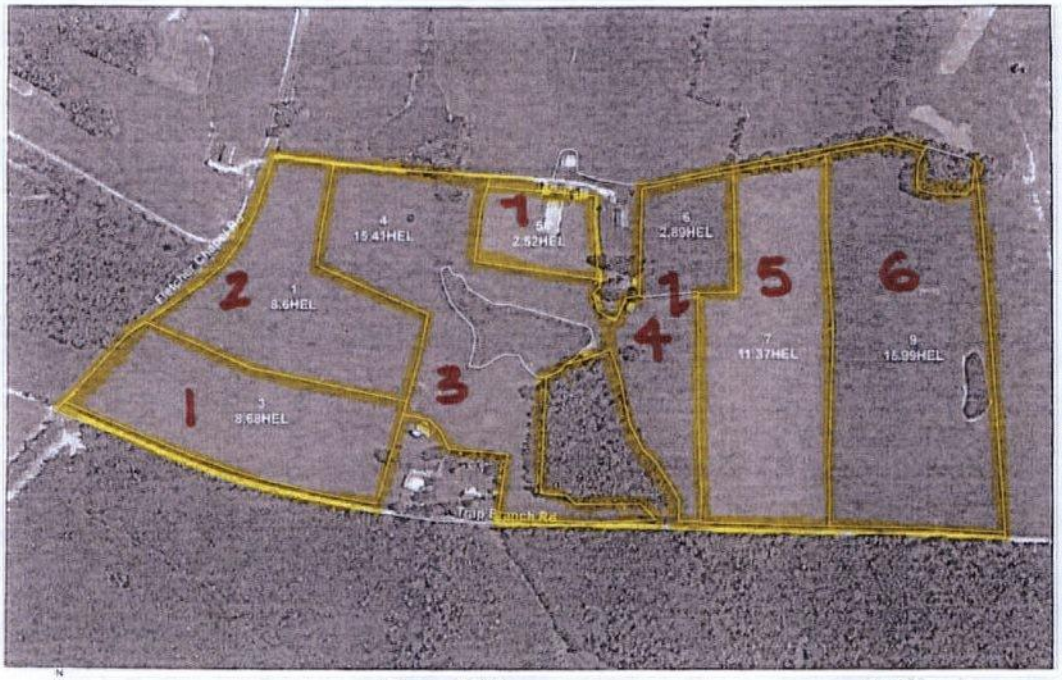
LUADB 1-7

SOIL MAP

N

Recyc Systems™ Inc.

(Biosolids Land Application)



Farm: 3916

Tract: 3

Lunenburg County, Va.

Disclaimer: Wetland identifiers do not represent the size, shape or specific determination of the area. Refer to your original dermination (CPA-026 and attached maps) for exact wetland boundaries and determinations, or contact NRCS.

Scale: 1"= 660 ft.

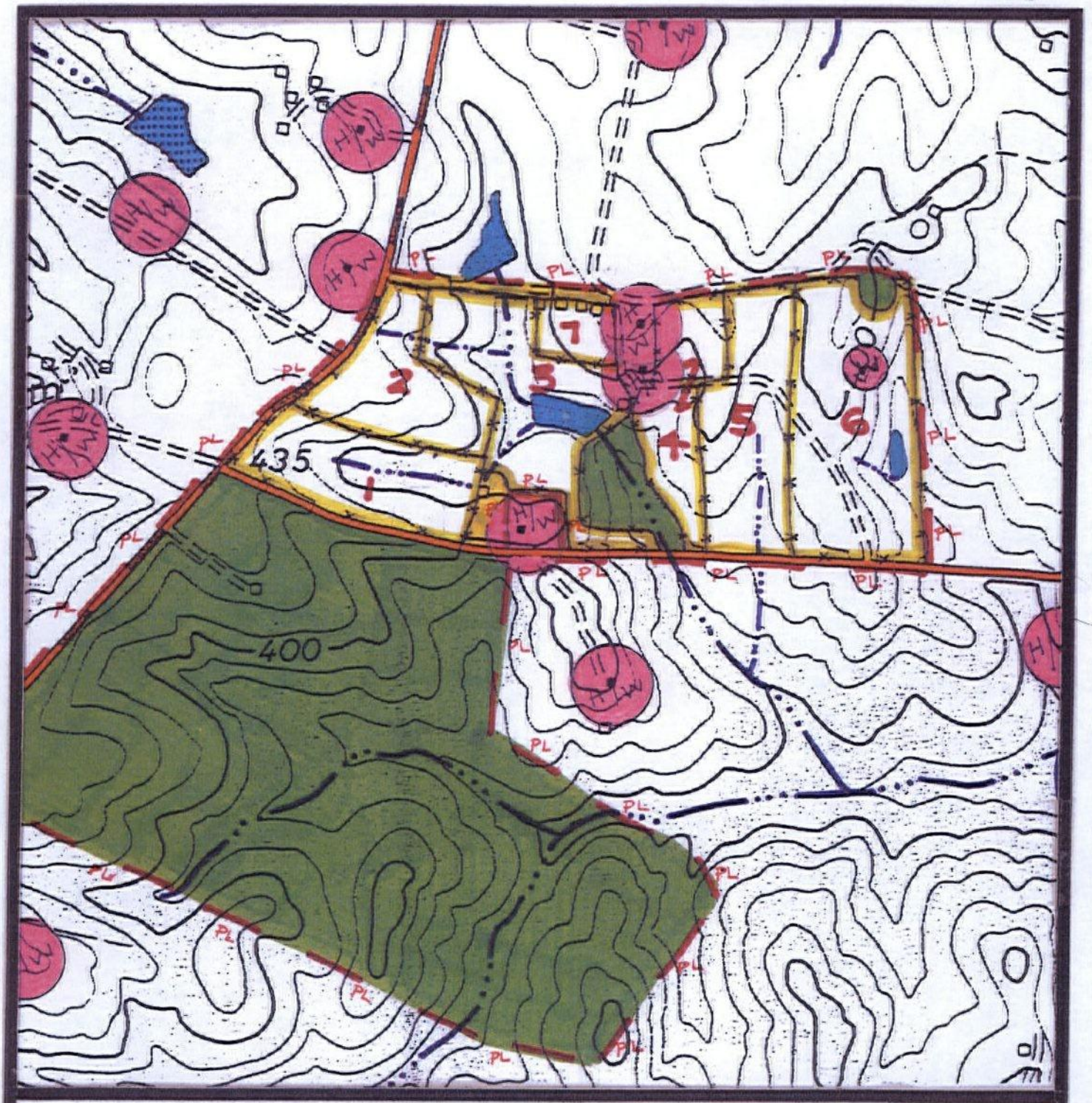
LUADB 1-7

AERIAL MAP

N

Legend for Site Plan

Recyc Systems™ Inc. (Biosolids Land Application)



Scale: 1"= 660 ft.

LUADB 1-7

SITE PLAN

N

Recyc Systems™ Inc.

(Biosolids Land Application)

Scale: 1"= 2000 ft.

LUADB 1-7

TOPOGRAPHIC MAP

N